**Table 2:** The Exact test results for Hardy-Weinberg Equilibrium. The frequencies of all genotypes in patients and control groups did not significantly deviate from Hardy-Weinberg equilibrium (P>0.05)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **UGT2B28**  **(frequency)** | **UGT2B17**  **(frequency)** | **UGT2B15**  **(frequency)** | **rs1800629**  **(frequency)** | **rs361525**  **(frequency)** |
| Control | 0.15 | 0.33 | 0.077 | 1 | 1 |
| BPH | 0.48 | 0.85 | 0.58 | 1 | 1 |
| Prostate cancer | 0.46 | 0.14 | 0.11 | 1 | 1 |

The decimal values are p values.

The frequency of alleles of each variant in each under study group is indicated by p value. When alleles are in equilibrium, genotypes are also in equilibrium, so the frequency is related to both. Due to the existing balance between the alleles, the selected variants are suitable for study.